

# INSECTS BRED FROM CULTIVATED AND ORNAMENTAL PLANTS IN NETHERLANDS NEW GUINEA

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Insects from cultivated and ornamental plants were collected during the last three years. The larvae were bred in small cages ( $23 \times 25 \times 45$  cm.). The cages had a bottom of hardboard, three sides and the top of plastic mosquito gauze, the fourth side being of glass. These cages were placed in our field laboratory which has a roof of corrugated iron and glass, and no walls.

During the breeding it was established that the insects mentioned in the following list were actually feeding on the recorded foodplants.

In the following list the insects are arranged alphabetically after the family names of the foodplants. After the latin name of the insect follows an indication showing which part of the plant is attacked, and the extent of the injury.

The plants were identified by the AGRICULTURAL RESEARCH STATION. The butterflies were named by myself after SEITZ' "Macrolepidoptera of the World".

## AMARANTHACEAE

*Amaranthus hybridus* L. and *A. spinosus* L.

*Hymenia fascialis* Cr. (Pyralidae), leaves, occasional.

*Gomphrena globosa* L.

*Hymenia fascialis* Cr. (Pyralidae), leaves, occasional.

## AMARYLLIDACEAE

*Crinum asiaticum* L.

*Calogramma festiva* Don. (Noctuidae), leaves, occasional.

## ANACARDIACEAE

*Mangifera* sp.

*Bombotelia jocosatrix* Gn. (Noctuidae) leaves, occasional.

*Homona trachyptera* Diak. (Tortricidae), leaves, common.

## ANNONACEAE

*Annona muricata* L.

*Oribius improvidus* Marsh. (Curculionidae), leaves, serious.

*Papilio agamemnon* L. (Papilionidae), leaves, occasional.

*Papilo macfarlanei* Butl. (Papilionidae), leaves, occasional.

## APOCYNACEAE

*Alstonia scholaris* R.Br.

*Deilephila placida* Wkr. (Sphingidae), leaves, occasional.

*Glyphodes* sp. (Pyralidae), leaves, occasional.

## ARACEAE

*Colocasia esculenta* Schott.

*Papuana semistriata* Arrow (Dynastidae), tubers, local.

*Prodenia litura* F. (Noctuidae), leaves, sometimes serious.

*Hippotion celerio* L. (Sphingidae), leaves, moderate.

*Theretra caju oldenlandiae* F. (Sphingidae), leaves, occasional.

## ASCLEPIADACEAE

*Asclepias curassavica* L.

*Danaida archippus* F. (Danaiidae), whole plant, occasional.

## BIGNONIACEAE

*Stenolobium stans* Seem.

*Psilogamma menepbron casuarinae* Btl. (Sphingidae), leaves, occasional.

## CAESALPINIACEAE

*Cassia alata* L. and *C. sophora* L.

*Catopsilia crocale* Cr. (Pieridae), leaves, common.

*Cryptopplebia ombrodelta* Low. (Tortricidae), pods, common.

## CONVOLVULACEAE

*Ipomoea batatas* Poir.

*Aspidomorpha punctum* F. (Cassididae), leaves, common.

*Aspidomorpha* sp. near *punctum* F. (Cassididae), leaves, common.

*Cassida trivittata* F. (Cassididae), leaves, common.

*Cylas formicarius* F. (Curculionidae), tubers, common.

*Herse convolvuli* L. (Sphingidae), leaves, moderate.

*Precis villida* God. (Nymphalidae), leaves, occasional.

*Ipomoea pes-tigridis* L.

*Herse convolvuli* L. (Sphingidae), leaves, occasional.

## CUCURBITACEAE

*Cucumis sativus* L.

*Diaphania indica* Saund. (Pyralidae), leaves, moderate.

## DIOSCOREACEAE

*Dioscorea* spp.*Theretra nessus* Dry. (Sphingidae), leaves, occasional.

## EUPHORBIACEAE

*Endospermum* sp.*Nyctalemon patroclus kotzenbergi* L. (Uraniidae), leaves, rare.*Ricinus communis* L.*Achaea janata* L. (Noctuidae), leaves, serious.*Homona trachyptera* Diak. (Tortricidae), leaves, serious.*Prodenia litura* F. (Noctuidae), leaves, occasional.

## GRAMINEAE

*Andropogon sorghum* Brot.*Hippotion brennus* Stoll. (Sphingidae), leaves, rare.*Mamestra bipunctella* Rag. (Pyralidae), stem, moderate.*Prodenia litura* F. (Noctuidae), leaves, moderate.*Oryza sativa* L.*Chilo oryzae* Fletcher (sens.lat.) (Pyralidae), stem, occasional.*Laphygma* sp. (Noctuidae), leaves, local.*Zea mays* L.*Hedylepta diemenalis* Gn. (Pyralidae), stem, moderate.*Heliothis armigera* Hbn. (Noctuidae), flowers, moderate.*Lampides* sp. (Lycaenidae), leaves, occasional.*Laphygma exempta* Wlk. (Noctuidae), leaves, occasional.*Parnara moolata* Wlk. (Hesperiidae), leaves, occasional.*Pyrausta salientialis* Snell. (Pyralidae), stem, very serious.*Spodoptera mauritia* Boisd. (Noctuidae), cobs, serious.

## MALVACEAE

*Hibiscus rosa-sinensis* L.*Anomis flava* F. (Noctuidae), leaves, occasional.*Syllepta derogata* F. (Pyralidae), leaves, moderate.

## MIMOSACEAE

*Acacia albida* Delile.*Eumeta* sp. (Psychidae), leaves, serious.

*Acacia farnesiana* Willd.

*Cryptopblebia ombrodelta* Low. (Tortricidae), pods, serious.

*Leucaena glauca* Bth.

*Eumeta* sp. (Psychidae), leaves, serious.

#### MORACEAE

*Artocarpus communis* Forst.

*Batocera wallacei* Thoms. (Cerambycidae), stem, occasional.

#### ORCHIDACEAE

*Dendrobium* sp.

*Pseudonotis danisoides* Nicév. (Lycaenidae), flowers, common.

#### PALMAE

*Cocos nucifera* L.

*Oryctes rhinoceros* L. (Dynastidae), coconut shoots, local.

*Scapanes australis* Boisd. (Dynastidae), coconut shoots, not serious, common.

*Telicota bambusae* Swh. (Hesperiidae), leaves, common.

*Tirathaba ignivena* Hpms. (Pyralidae), leaves and young nuts, local.

#### PAPILIONACEAE

*Crotalaria* sp.

*Argina cribaria* Cl. (Arctiidae), leaves, common.

*Heliothis armigera* Hbn. (Noctuidae), leaves, common.

*Laspeyresia pseudonectis* Meyr. (Tortricidae), leaves, occasional.

*Utetheisa lotrix* Cram. (Arctiidae), leaves, common.

*Glycine max* Merr.

*Cryptopblebia ombrodelta* Low. (Tortricidae), stem, occasional.

*Epilachna signatipennis* Boisd. (Coccinellidae), leaves, common.

*Hedylepta diemenalis* Gn. (Pyralidae), leaves, occasional.

*Lampides* sp. (Lycaenidae), leaves, moderate.

*Utetheisa lotrix* Cram. (Arctiidae), leaves, common.

*Indigofera* spp.

*Dichomeris* sp. (Gelechiidae), leaves, occasional.

*Lampides* sp. (Lycaenidae), leaves, occasional.

*Prodenia litura* F. (Noctuidae), leaves, serious.

*Thermesia rubricans* Bdv. (Noctuidae), leaves, occasional.

*Phaseolus* spp.

- Agromyza phaseoli* Coq. (Agromyzidae), caudex, serious.  
*Cretonotus gangis* L. (Arctiidae), leaves, moderate.  
*Epilachna signatipennis* Boisd. (Coccinellidae), leaves, common.  
*Hedylepta diemenalis* Gn. (Pyralidae), leaves, moderate.  
*Heliothis armigera* Hbn. (Noctuidae), leaves, moderate.  
*Lampides* sp. (Lycaenidae), leaves, occasional.  
*Laphygma* sp. (Noctuidae), leaves, occasional.  
*Maruca testulalis* Gey. (Pyralidae), flowers and pods, occasional.  
*Plusia chalsites* Esp. (Noctuidae), leaves, common.  
*Prodenia litura* F. (Noctuidae), leaves, serious.  
*Spodoptera mauritia* Boisd. (Noctuidae), leaves, serious.  
*Thermesia rubricans* Bdv. (Noctuidae), leaves and pods, serious.

*Sesbania* spp.

- Cryptophlebia ombrodelta* Low. (Tortricidae), stem, occasional.  
*Heliothis armigera* Hbn. (Noctuidae), flowers and pods, common.  
*Homona trachyptera* Diak. (Tortricidae), leaves, occasional.  
*Lampides* sp. (Lycaenidae), leaves, moderate.  
*Maruca testulalis* Gey. (Pyralidae), flowers, common.  
*Terias hecabe* L. (Pieridae), leaves, common.

*Tephrosia vogelii* Hook.

- Maruca testulalis* Gey. (Pyralidae), flowers, common.  
*Pyrausta ?ceoderalis* Wlk. (Pyralidae), stem, occasional.

*Vigna sinensis* Endl.

- Lampides* sp. (Lycaenidae), leaves, occasional.  
*Maruca testulalis* Gey. (Pyralidae), flowers, occasional.  
*Thermesia rubricans* Bdv. (Noctuidae), leaves and pods, serious.  
*Ythma* sp. (Satyridae), leaves, moderate.

## RUBIACEAE

*Coffea* sp.

- Eumeta* sp. (Psychidae), leaves, occasional.  
*Homona trachyptera* Diak. (Tortricidae), leaves, occasional.

## RUTACEAE

*Citrus* spp.

- Adoxophyes templana* Pag. (Tortricidae), leaves, serious.  
*Adoxophyes* spec. (Tortricidae), leaves, moderate.

- Homona mermerodes* Meyr. (Tortricidae), leaves, serious.  
*Homona trachyptera* Diak. (Tortricidae), leaves, serious.  
*Papilio aegeus* Donovan (Papilionidae), leaves, common.  
*Papilio ambrax* Boisduval (Papilionidae), leaves, occasional.  
*Paradichelia* spec. (Tortricidae), leaves, moderate.

## SOLANACEAE

*Solanum melongena* L.

- Epilachna guttato-pustulata* Fabr. (Coccinellidae), leaves, occasional.

*Solanum tuberosum* L.

- Heliothis armigera* Hbn. (Noctuidae), fruits, moderate.

## STERCULIACEAE

*Theobroma cacao* L.

- Amatissa* sp. (Psychidae), leaves, occasional.  
*Eumeta crameri* Westw. (Psychidae), leaves, occasional.  
*Heliothis armigera* Hbn. (Noctuidae), leaves, moderate.  
*Lepidiotia* sp. near *vogeli* Brske. (Melolonthidae), roots, local serious.  
*Pagodia hekmeyeri* Heyl. (Psychidae), leaves, occasional.  
*Panseptia teleturga* Meyr. (Xylorictidae), bark, local.

## VERBENACEAE

*Tectona grandis* L.

- Hyblaea puera* Cram. (Noctuidae), leaves, serious.  
*Prodenia litura* F. (Noctuidae), leaves, serious.

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